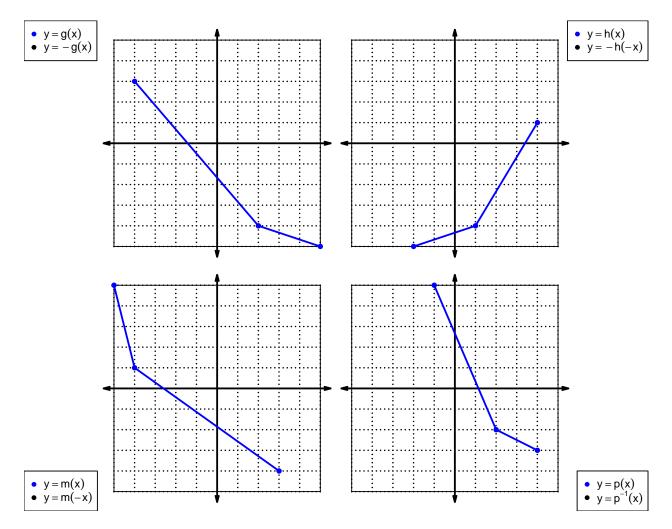
1. Let function f be defined by the polynomial below:

$$f(x) = 5x^5 + 8x^4 + 4x^3 + 7x^2 + 2x + 6$$

Draw lines that match each function reflection with its polynomial:

Reflections	Polynomials	
-f(x) •		
f(−x) •		
-f(-x) •		

2. In each xy plane shown below, a function is graphed with blue. Draw the indicated reflections (as a second curve, indicated in legend) with black (or with whatever you have). The x axis is horizontal and the y axis is vertical (as typical), and the scale is equal on both axes.



For all questions on this page, the functions f, g, and h are defined by the table below.

\overline{x}	f(x)	g(x)	h(x)
1	1	4	6
2	6	5	7
3	5	2	1
4	8	9	9
5	2	6	8
6	7	3	4
7	4	8	5
8	9	1	3
9	3	7	2

3. Evaluate h(9).

4. Evaluate $f^{-1}(4)$.

5. Assuming g is an **even** function, evaluate g(-3).

6. Assuming f is an **odd** function, evaluate f(-1).

7. A function, f, is **even** if f(x) = f(-x) for all x in the domain. A function, g, is **odd** if g(x) = -g(-x) for all x in the domain.

Let polynomial p be defined with the following equation:

$$p(x) = -x^3 - x$$

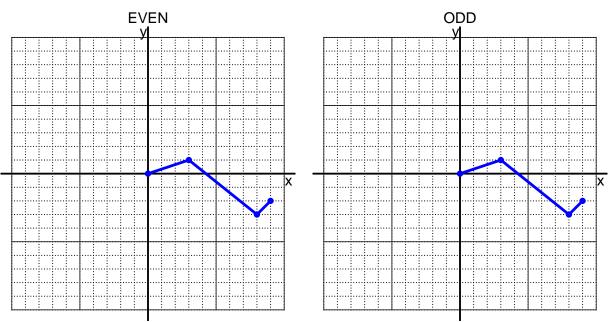
a. Express p(-x) as a polynomial in standard form.

b. Express -p(-x) as a polynomial in standard form.

c. Is polynomial p even, odd, or neither?

d. Explain how you know the answer to part c.

8. I have drawn half of a function. Draw the other half to make it even or odd.



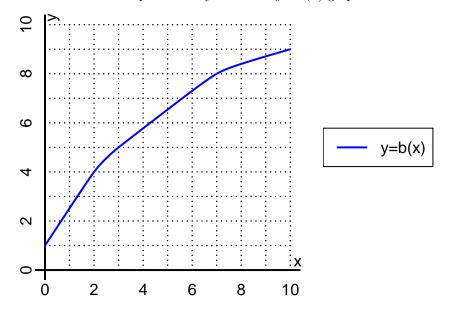
9. Let function f be defined with the equation below.

$$f(x) = 6(x-2)$$

a. Evaluate f(7).

b. Evaluate $f^{-1}(18)$.

10. The function b is represented by the curve y = b(x) graphed below.



a. Evaluate b(2).

b. Evaluate $b^{-1}(8)$.

- 11. Function f is defined by the table below.
 - a. Complete the columns for -f(x) and f(-x) and -f(-x).

x	f(x)	-f(x)	f(-x)	-f(-x)
-2	3			
-1	9			
0	0			
1	9			
2	-3			

b. Is function f even, odd, or neither?

c. How do you know the answer to part b?